## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Original) A method of manufacturing a piezoelectric thin film resonator that after forming a piezoelectric film on a substrate so as to cover a lower electrode formed on the substrate, forms an electrode material layer for forming an upper electrode above the piezoelectric film, forms a mask of a predetermined form on the electrode material layer, and then etches the electrode material layer to form the upper electrode,

wherein before a step of forming the electrode material layer, a protective layer for protecting the piezoelectric film during etching of the electrode material layer is formed so as to cover at least a part of the piezoelectric film where the upper electrode is not formed, and the electrode material layer is then formed so as to cover the protective layer.

2. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the protective layer is formed with silicon oxide (SiO<sub>2</sub>).

- 3. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the piezoelectric film is formed with zinc oxide (ZnO).
- 4. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the electrode material layer is formed with aluminum (Al) or gold (Au).
- 5. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the electrode material layer is etched by wet etching to form the upper electrode.
- 6. (Original) A manufacturing apparatus for a piezoelectric thin film resonator that after forming a piezoelectric film on a substrate so as to cover a lower electrode formed on the substrate, forms an electrode material layer for forming an upper electrode above the piezoelectric film, forms a mask of a predetermined form on the electrode material layer, and then etches the electrode material layer to form the upper electrode,

wherein before the electrode material layer is formed, a protective layer for protecting the piezoelectric film during etching of the electrode material layer is formed so as to cover at least a part of the piezoelectric film where the upper

electrode is not formed and the electrode material layer is then formed so as to cover the protective layer.

- 7. (Original) A manufacturing apparatus for a piezoelectric thin film resonator according to Claim 6, wherein the electrode material layer is etched by wet etching to form the upper electrode.
- 8. (Currently Amended) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 1 any of Claim 1 to Claim 5.
- 9. (Original) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 8.
- 10. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 2.
- 11. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 3.

- 12. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 4.
- 13. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 5.
- 14. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 10.
- 15. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 11.
- 16. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 12.
- 17. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 13.